



Patent
Attorney's Docket No. 033022-004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
)	
Yukio SHAKUDA)	Group Art Unit: 2828
)	
Application No.: 09/604,097)	Examiner: James W. Davie
)	
Filed: June 27, 2000)	Confirmation No.: 6648
)	
For: SEMICONDUCTOR LIGHT EMITTING)	
DEVICE AND MANUFACTURING)	
METHOD THEREOF)	
)	

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicant hereby submits the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

1. T. Nagatomo, et al., "Properties of $Ga_{1-x}In_xN$ Films Prepared by MOVPE", Japanese Journal of Applied Physics, Vol. 28, No. 9, August, 1989, pp. L1334-L1336;
2. K. Osamura, et al., "Fundamental Absorption Edge in GaN, InN and Their Alloys", Solid State Communications, Vol. 11, 1972, pp. 617-621 ;
3. S. Yoshida, et al., "Properties of $Al_xGa_{1-x}N$ Films Prepared by Reactive Molecular Beam Epitaxy", J. Appl. Phys., Vol. 53, No. 10, October 1982;
4. K. Osamura, et al., "Preparation and Optical Properties of $Ga_{1-x}In_xN$ Thin Films", Journal of Applied Physics, Vol. 46, No. 8, August 1975;
5. Y. Koide, et al., "Energy Band-Gap Bowing Parameter in an $Al_xGa_{1-x}N$ Alloy", J. Appl. Phys. Vol. 61, No. 9, 1 May 1987;

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6. C. H. Cater, Jr., et al., "MOVPE Growth Of High Quality $\text{Al}_x\text{Ga}_{1-x}\text{N}/\text{Ga}_y\text{In}_{1-y}\text{N}$ ($x > 0, y < 1$) Heterostructures for Short Wavelength Light Emitter", Mat. Res. So. Symp. Pro., Vol. 339, 1994; and
7. L. Hrivnak, "Band Gas, Effective Masses, and Band Offsets in Lattice Matched Heterojunctions", Phys. Stat. Sol. (a), Vol. 128, K.89, 1991.

A fee in the amount of \$180.00 (126) is enclosed in conformance with 37 C.F.R.

§ 1.97(c).

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

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